

EXHIBIT 12

Certificate of Registration



This Certificate issued under the seal of the Copyright Office in accordance with title 17, *United States Code*, attests that registration has been made for the work identified below. The information on this certificate has been made a part of the Copyright Office records.

Maria A. Pallante

Register of Copyrights, United States of America

Registration Number
TX 7-938-524

**Effective date of
registration:**

November 28, 2014

Title

Title of Work: Cisco IOS 15.0
Previous or Alternative Title: Cisco IOS Release 15.0
 Cisco IOS Version 15.0
 Cisco Internetwork Operating System 15.0
 Cisco Internetwork Operating System Release 15.0
 Cisco Internetwork Operating System Version 15.0
 Cisco Internetwork Operating System Software Release 15.0
 Cisco IOS Software Release 15.0

Completion/Publication

Year of Completion: 2009
Date of 1st Publication: October 1, 2009
Nation of 1st Publication: United States

Author

■ **Author:** Cisco Systems, Inc.
Author Created: text, computer program

Work made for hire: Yes

Citizen of: United States

Domiciled in: United States

■ **Author:** Bard na nGleann
Author Created: text

Work made for hire: Yes

Citizen of: Ireland

Domiciled in: Ireland

■ **Author:** AAP3, Inc.
Author Created: computer program

Work made for hire: Yes

Citizen of: United Kingdom

Domiciled in: United Kingdom

■ **Author:** Aerotek, Inc.

Author Created: computer program

Work made for hire: Yes

Citizen of: United States

Domiciled in: United States

■ **Author:** HCL Technologies Limited

Author Created: computer program

Work made for hire: Yes

Citizen of: India

Domiciled in: India

■ **Author:** Infobahn Softworld Inc.

Author Created: computer program

Work made for hire: Yes

Citizen of: United States

Domiciled in: United States

■ **Author:** Infosys Technologies Ltd.

Author Created: computer program

Work made for hire: Yes

Citizen of: India

Domiciled in: India

■ **Author:** KForce Inc.

Author Created: computer program

Work made for hire: Yes

Citizen of: United States

Domiciled in: United States

■ **Author:** Ma Foi Management Consultants Ltd.

Author Created: computer program

Work made for hire: Yes

Citizen of: India

Domiciled in: India

■ **Author:** Randstad

Author Created: computer program

Work made for hire: Yes

Citizen of: United States

Domiciled in: United States

■ **Author:** Wipro Limited

Author Created: computer program

Work made for hire: Yes

Citizen of: India

Domiciled in: India

Copyright claimant _____

Copyright Claimant: Cisco Technology, Inc.

170 W. Tasman Drive, San Jose, CA, 95134, United States

Transfer Statement: By written agreement

Limitation of copyright claim

Material excluded from this claim: Prior works by claimant and preexisting third party computer code

Previous registration and year: TXu1-259-162 2005

New material included in claim: New and revised computer code and accompanying documentation

Certification

Name: Joshua L. Simmons, Esq.

Date: November 12, 2014

Applicant's Tracking Number: 41593-0036

Registration #: TX0007938524

Service Request #: 1-1840007632



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